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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/830,666	07/30/2001	Nico J.M. Rijkhoff	P66606USO	9516
136	7590 03/26/2004		EXAM	INER
JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W.			OROPEZA, FRANCES P	
SUITE 600			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20004			3762	12

DATE MAILED: 03/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.)				
•	Application No.	Applicant(s)				
Office Action Summan	09/830,666	RIJKHOFF ET AL.				
Office Action Summary	Examiner	Art Unit				
	Frances P. Oropeza	3762				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. R.1.136(a). In no event, however, may a repreply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONTI atute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. INDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 1/	/8/04 (Amendment).					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 22-29 and 40-44 is/are pending in 4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed. 6) Claim(s) 22-29 and 40-44 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction an	drawn from consideration.					
Application Papers						
9) The specification is objected to by the Exam 10) The drawing(s) filed on 08 January 2004 is/a Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	are: a)⊠ accepted or b)⊡ ob the drawing(s) be held in abeyand rection is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in Ap priority documents have been re reau (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)		ummary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 		/Mail Date formal Patent Application (PTO-152) _·				

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Art Unit: 3762

DETAILED ACTION

Response to Amendment

1. The Applicant's arguments filed 1/8/04 are convincing, hence the rejection of record is withdrawn and an new rejection established in the subsequent paragraphs.

Claim Rejections - 35 USC § 103

2. Claims 22-29 and 40-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boveja et al. (US 6505074) in view of Glover (US 3662758) and further in view of Wernicke et al. (US 5188104).

Boveja et al. disclose a method for electrical neural stimulation to treat bladder overactivity providing neural stimulation for detrusor inhibition using programmed stimulation (abstract; col. 1 @ 19-23; col. 1 @ 33- col. 2 @ 38; col. 2 @ 45 - col. 3 @ 32; col. 4 @ 25-35; col. 5 @ 4-22; col. 7 @ 49 - col. 8 @ 11; col. 10 @ 5-48; col. 12 @ 13-21). Boveja et al. teach a bladder event (impulses in the mechanoreceptor afferents) can precipitate a full-blown micturition reflex, and the increased activity (electrical pulses) associated with the reflex control of the striated urethral sphincter controls the mitruition process (col. 2 @ 10 - 21).

As discussed in the previous paragraph of this action, Boveja et al. disclose the claimed invention except for: 1) using detected signals (indicative of a bladder event) to control bladder stimulation to inhibit detrusor contractions of the bladder, and 2) estimating bladder volume and actuating an alert signal when the predetermined threshold for bladder volume has been reached.

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Glover discloses a stimulation apparatus for use with organs and teaches:

using detected signals (indicative of a bladder event) to control bladder stimulation for the purpose of inhibiting detrusor contractions of the bladder base on the bladder volume, and

estimating bladder volume based on the amplitude and/or timing of signals and actuating an external alert response/ indicator when the threshold has been reached for the purpose of notifying the user of the need for mitruition. (As to the amplitude, Glover teaches monitoring impedance and Wernicke et al. (US 5188104) teach it is well known that amplitude of an impedance signal varies depending on fullness of the organ being monitored (col. 10 @ 33-37)).

It would have been obvious to one having ordinary skill in the art at the time of the invention to have: 1) detected signals (indicative of a bladder event) to control bladder stimulation and 2) estimated bladder volume based on the amplitude and/ or timing of signals and actuating an alert signal when the predetermined threshold for bladder volume is reached in the Boveja et al. system in order to provide more precise indication of the status of the bladder which is being controlled, hence enabling customization of the neural stimulation based on the needs of the particular patient (abstract; figure 2; col. 1 @ 57- col. 2 @ 4; col. 3 @ 16-50; col. 5 @ 36-46).

Statutory Basis

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Fran Oropeza, telephone number is (703) 605-4355. The Examiner can normally be reached on Monday – Friday 9 a.m. to 5 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Angela D. Sykes can be reached on (703) 308-5181. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 for regular communication and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Receptionist, telephone number is (703) 308-0858.

Frances P. Oropeza Patent Examiner Art Unit 3762

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TECHNOLOGY CENTER 3700

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